



**DEPARTMENT OF CIVIL ENGINEERING
(DCE)**

Course of Study

**Master of Technology (M.Tech)
Civil Engineering (CE)
(Transportation Engineering)**

M. Tech
(Scheme Transportation Engineering) 1st Semester

S. No.	Course Code	Course Name	L-T-P	Cr
1	CE-501-T	Highway Planning and Geometric Design	3-1-0	4
2	CE-503-T	Advanced Railway Engineering	3-1-0	4
3	CE-505-T	Construction Project Management	3-1-0	4
4	CE-507-T	Departmental Elective – I (Engineering Geology)	4-0-0	4
5	CE-521-T	Transportation Engineering Lab/Case Study	0-0-4	2
Total			13-3-4	18

(Scheme Transportation Engineering) 2nd Semester

S. No.	Course Code	Course Name	L-T-P	Cr
1	CE-504-T	Analysis & Structural Design of Pavements	3-1-0	4
2	CE-506-T	Mass Transit System	3-1-0	4
3	CE-508-T	Transportation & Environment	3-1-0	4
4	CE-512-T	Departmental Elective II (Construction Materials)	3-1-0	4
5	CE-522-T	Traffic & Transportation Engineering Laboratory / Case Study	0-0-4	2
6	CE-526-T	Minor Project	0-0-4	2
Total			12-4-8	20

(Scheme Transportation Engineering) 3rd Semester

S. No.	Course Code	Course Name	L-T-P	Cr
1	CE-601-T	Airport, Docks & Harbour	3-1-0	4
2	CE-615-T	Departmental Elective III (Bridge Engineering)	3-1-0	4
3	CE-623-T	Dissertation Work-I	0-0-12	6
4	CE-625-T	Seminar-I	0-0-8	4
Total			6-2-20	18

(Scheme Transportation Engineering) 4th Semester

S. No.	Course Code	Course Name	L-T-P	Cr
1	CE-622-T	Seminars – II	0-0-8	4
2	CE-624-T	Dissertation Work-II	0-0-24	12
3	CE-626-T	Teaching Practice	0-0-8	4
Total			0-0-40	20

List of Departmental Electives

Departmental Elective - I		
S. No.	Subject Code	Subject Name
1.	CE-511-T	Advanced Engineering Geology
	CE-513-T	GIS Applications in Transportation Engineering
	CE-515-T	Advanced Soil Mechanics
2.		
3.		
Departmental Elective - II		
4.	CE-512-T	Construction Material
5.	CE-514-T	Ground Improvement Techniques
6.	CE-516-T	Automobile Pollution Control
Departmental Elective - III		
7.	CE-611-T	Bridge Engineering
8.	CE-613-T	Finite Element Method
9.	CE-615-T	Mass and Multimodal Transportation Systems



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(Structural Engineering)**

Lingaya's Vidyapeeth, Faridabad

Detailed Scheme of M. Tech (Structural Engineering) First Year/First Semester

S. No	Subject Code	Subject Name	L-T-P	Cr
1	CES-501	Advanced Structural Engineering	3-1-0	4
2	CES-503	Advanced RCC Design	3-1-0	4
3	CES-505	Structural Dynamics	3-1-0	4
4	CES-511	Departmental Elective-I (Composite Materials)	3-1-0	4
5	CES-521	Advanced Material Testing Lab	0-0-4	2
Total			12-4-4	18

First Year/Second Semester

S.No	Subject Code.	Subject Name	L-T-P	Cr
1	CES-502	Design of Bridges	3-1-0	4
2	CES-504	Advanced Design of Steel Structures	3-1-0	4
3	CES-506	Finite Elements Method in Structural Engineering	3-1-0	4
4	CES-512	Departmental Elective-II (Advanced Engineering Geology)	3-1-0	4
6	CES-522	Computational Lab for Structural Engineering	0-0-4	2
Total			12-4-4	18

Second Year/Third Semester

S. No.	Subject Code	Subject Name	L-T-P	Cr
1	CES-601	Earthquake Analysis & Design of Structures	3-1-0	4
2	CES-615	Departmental Elective III (Advanced Foundation Engineering)	3-1-0	4
3	CES-621	Dissertation Work-I	0-0-12	6
4	CES-623	Seminar - I	0-0-12	4
Total			6-2-24	18

Second Year/Fourth Semester

S.No.	Subject Code	Subject Name	L-T-P	Cr
1	CES-622	Seminars - II	0-0-8	4
2	CES-624	Dissertation Work -II	0-0-24	14
3	CES-626	Teaching Practice	0-0-8	2
Total			0-0-40	20

Departmental Electives

Departmental Elective – I		
S. No.	Subject Code	Subject Name
1.	CES-511	Composite Materials
2.	CES-513	Design of Pre-Stressed Concrete Structures
3.	CES-515	High Rise Buildings
Departmental Elective – II		
1.	CES-512	Advanced Engineering Geology
2.	CES-514	Stability Theory in Structural Engineering
3.	CES-516	Rehabilitation of Structures
Departmental Elective – III		
1.	CES-611	Construction and Maintenance Management
2.	CES-613	Advanced Numerical Analysis
3.		



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(Construction Technology & Management)

Lingaya's Vidyapeeth, Faridabad

M. Tech (Construction Technology & Management)

Semester I

S. No.	Course Code	Course Name	L-T-P	Cr
1	CEC-501	Quantitative Methods in Construction Management	3-1-0	4
2	CEC-503	Building Science	3-1-0	4
3	CEC-505	Construction Project Management	3-1-0	4
4	CEC-511	Departmental Elective – I (Composite Materials)	3-1-0	4
5	CEC-551	Project Management Lab	0-0-4	2
6	CEC-553	Seminar on Construction Technology & Management	0-0-4	2
Total			12-4-8	20

M. Tech (Construction Technology & Management)

Semester II

S. No.	Course Code	Course Name	L-T-P	Cr
1	CEC-502	Construction Economics & Finance	3-1-0	4
2	CEC-504	Construction Practices & Equipment	3-1-0	4
3	CEC-506	Advanced Concrete Technology	3-1-0	4
4	CEC-512	Departmental Elective II (Construction Materials)	3-1-0	4
5	CEC-552	Advanced Concrete Technology Lab	0-0-4	2
6	CEC-554	Minor Project	0-0-4	2
Total			12-4-8	20

M. Tech (Construction Technology & Management)

Semester III

S. No.	Course Code	Course Name	L-T-P	Cr
2	CEC-601	Construction Contract Management	3-1-0	4
3	CEC-611	Departmental Elective III (Construction and Maintenance Management)	3-1-0	4
4	CEC-651	Dissertation Work-I	0-0-12	6
5	CEC-653	Seminar-I	0-0-8	4
Total			3-2-20	18

M. Tech (Construction Technology & Management)

Semester IV

S. No.	Course Code	Course Name	L-T-P	Cr
1	CEC-652	Seminar – II	0-0-8	4
2	CEC-654	Dissertation Work-II	0-0-24	12
3	CEC-656	Teaching Practice	0-0-8	4
Total			0-0-40	20

List of Departmental Electives

Departmental Elective – I		
S. No.	Subject Code	Subject Name
1.	CEC-511	Composite Materials
	CEC-513	Construction & Contract Management
Departmental Elective - II		
1.	CEC-512	Construction Materials
	CEC-514	GIS in Construction Engineering and Management Reliability
	CEC-516	Systems Design and Value Analysis
Departmental Elective - III		
1.	CEC-611	Construction & Maintenance Management
	CEC-613	Reliability Analysis in Construction Management